Serial No: 09/475,144

CLAIMS

1   1.   (Currently Amended) A method for providing call forwarding in an IP telephone

2   network in response to the , comprising the steps of: dialing of a unique identifier for a first

3   telephone from a second telephone to make a call, the method comprising the steps of:

4   routing the call to a call management device located in the IP telephone network;

5   said call management device sending at least a first data message containing

6   information pertaining to the call destination information to a customer premises equipment

7   responsible for said first telephone without extending the call to that customer premises

8   equipment or to said first telephone;

9   the customer premises equipment responding to said first data message by checking

10   stored call forwarding profiles in the customer premises equipment to determine whether

11   there is an active call forwarding profile for said first telephone, and;

12   said call management device extending said call via said customer premises

13   equipment to said first telephone if an active call forwarding profile is not found;

14   said customer premises equipment sending at least a second data message that

15   includes call forwarding information of said profile for said first telephone, which

16   information includes conditions for call forwarding, to said call management device, if there

17   is an active call forwarding profile for said first telephone; and

18   said call management device receiving said at least second data message that

19   includes said call forwarding information and routing the call to at least a third telephone

20   based on the call forwarding information.

1   2.   (Original) The method according to claim 1, further comprising the step of:

2   using a distinctive ringing tone at the at least third telephone to indicate that the

3   incoming call is a forwarded call.

1   3.   (Original) The method according to claim 1, wherein a subscriber creates call

2   forwarding profiles using a computer connected to said customer premises equipment via

3   phone lines.

2

Serial No: 09/475,144

1   4.   (Original) The method according to claim 1, wherein a subscriber creates call
2   forwarding profiles by interacting with the customer premises equipment.

1   5.   (Original) The method according to claim 1, wherein the active call forwarding
2   profile remains active until the call forwarding profile is disabled by a subscriber.

1   6.   (Original) The method according to claim 1, wherein the active call forwarding
2   profile remains active until the call forwarding profile is deleted from the customer premises
3   equipment by a subscriber.

1   7.   (Original) The method according to claim 1, wherein said call forwarding profile
2   comprises multiple unique identifiers to which the call can be routed.

1   8.   (Original) The method according to claim 7, wherein the call is routed
2   simultaneously to the multiple unique identifiers when the call forwarding profile is active.

1   9.   (Original) The method according to claim 7, wherein the call is routed to the
2   multiple unique identifiers sequentially.

1   10.   (Original) The method according to claim 1, wherein the call forwarding profile
2   only forwards calls from a predetermined list of caller unique identifiers.

1   11.   (Currently Amended) The method according to claim 1, wherein the call
2   forwarding profile specifies that ~~call~~calls are only to be forwarded during predetermined
3   periods of time.

1   12.   (Original) The method according to claim 11, wherein said predetermined periods
2   of time are various days of the week.

1   13.   (Currently Amended) The ~~meted~~method according to claim 11, wherein said

3

Serial No: 09/475,144

2   predetermined periods of time are various hours of the day.

1   14.   (Original) The method according to claim 11, wherein said predetermined periods

2   of time are various hours and days of the week.

1   15.   (Currently Amended) The method according to claim [11] 1, wherein said unique

2   identifier is a telephone number.

1   16.   (Currently Amended) The method according to claim [11] 1, wherein said unique

2   identifier is an IP address.

1   17.   (Original) The method according to claim 1, wherein said customer premises

2   equipment is a Broadband Residential Gateway.

        18.   Canceled.

1   19.   (Currently Amended) An IP telephone system for providing call forwarding service

2   to a plurality of telephones connected to an IP network, each telephone having a unique

3   identifier, the telephone system comprising:

4   a call management device located in an the IP network for routing telephone calls

5   between the plurality of telephones; and

6   customer premises devices serving at least one telephone, wherein the customer

7   premises device has memory means for storing call forwarding profiles, means for

8   determining if the call forwarding profile is active when a call is received at the customer

9   premises device for the telephone and means for sending said active call forwarding profile

10   to said call management device;

11   wherein the call is routed by the said call management device to a telephone based

12   on the call forwarding information contained in said active call forwarding profile.

1   20.   (Original) The system according to claim 19, wherein said memory means is a

Serial No: 09/475,144

2   flash memory.

1   21.   (Currently Amended) The system according to claim 19, wherein a distinctive

2   ringing tone is used by the telephone to which the call is forwarded so as to indicate

3   ~~indicated~~ that the incoming call has been forwarded.

1   22.   (Original) The system according to claim 19, wherein a subscriber creates call

2   forwarding profiles using a computer connected to said customer premises equipment via

3   phone lines.

1   23.   (Original) The system according to claim 19, wherein a subscriber creates call

2   forwarding profiles with customer premises equipment.

1   24.   (Original) The system according to claim 19, wherein the active call forwarding

2   profile is disabled by a subscriber.

1   25.   (Original) The system according to claim 19, wherein the active call forwarding

2   profile remains active until the call forwarding profile is deleted from the customer premises

3   equipment by a subscriber.

1   26.   (Original) The system according to claim 19, wherein said call forwarding profile

2   comprises multiple unique identifiers to which the call can be routed.

1   27.   (Original) The system according to claim 26, wherein the call is routed

2   simultaneously to the multiple unique identifiers when the call forwarding profile is active.

1   28.   (Original) The system according to claim 26, wherein the call is routed to the

2   multiple unique identifiers sequentially.

1   29.   (Original) The system according to claim 19, wherein the call forwarding profile

5

Serial No: 09/475,144

2   only forwards calls from a predetermined list of caller unique identifiers.

1   30.   (Currently Amended) The system according to claim 19, wherein the call

2   forwarding profile specifies that ~~call~~calls are only to be forwarded during predetermined

3   periods of time.

1   31.   (Original) The system according to claim 30, wherein said predetermined periods

2   of time are various days of the week.

1   32.   (Original) The system according to claim 30, wherein said predetermined periods

2   of time are various hours of the day.

1   33.   (Original) The system according to claim 30, wherein said predetermined periods

2   of time are various hours and days of the week.

1   34.   (Original) The method according to claim 19, wherein said unique identifier is a

2   telephone number.

1   35.   (Original) The method according to claim 19, wherein said unique identifier is an

2   IP address.

1   36.   (Original) The method according to claim 19, wherein said customer premises

2   equipment is a Broadband Residential Gateway.

37.   Canceled.

1   38.   (Currently Amended) A method for providing call forwarding in an IP telephone

2   network, comprising the steps of:

3   creating a call forwarding profile for at least a first telephone;

4   storing said call forwarding profile in a customer premises equipment;

6

Serial No: 09/475,144

5   routing a call from a second telephone to the first telephone to a call manager within

6   said IP telephone network;

7   transmitting a first data message from the call manager to the customer premises

8   equipment that causes ~~checking~~ said stored call forwarding profile to be checked in order to

9   determine whether there is an active call forwarding profile for said first telephone, said

10   profile being checked without said call being extended to said customer premises

11   equipment;

12   connecting said call to said first telephone if said customer premises equipment does

13   not return an active call forwarding profile ~~is not found~~ to said call manager; and

14   said call manager receiving said active call forwarding profile from said customer

15   premises equipment in a second data message and routing the call to at least a third

16   telephone based on call forwarding information in the received active call forwarding

17   profile.

1   39.   (Original) The method according to claim 38, further comprising the step of:

2   using a distinctive ringing tone at the at least third telephone to indicate that the

3   incoming call is a forwarded call.

1   40.   (Original) The method according to claim 38, wherein a subscriber creates call

2   forwarding profiles using a computer connected to a broadband residential gateway via

3   phone lines.

1   41.   (Original) The method according to claim 38, wherein a subscriber creates call

2   forwarding profiles by interacting with a broadband residential gateway.

1   42.   (Original) The method according to claim 38, wherein the active call forwarding

2   profile remains active until the call forwarding profile is disabled by a subscriber.

1   43.   (Original) The method according to claim 38, wherein the active call forwarding

2 · profile remains active until the call forwarding profile is deleted from a broadband

Serial No: 09/475,144

3   residential gateway by a subscriber.

1   44.   (Original) The method according to claim 38, wherein said call forwarding profile

2   comprises multiple telephone numbers to which the call can be routed.

1   45.   (Original) The method according to claim 44, wherein the call is routed

2   simultaneously to the multiple telephone numbers when the call forwarding profile is active.

1   46.   (Original) The method according to claim 44, wherein the call is routed to the

2   multiple telephone numbers sequentially.

1   47.   (Original) The method according to claim 38, wherein the call forwarding profile

2   only forwards calls from a predetermined list of caller telephone numbers.

1   48.   (Currently Amended) The method according to claim 38, wherein the call

2   forwarding profile specifies that ~~call~~calls are only to be forwarded during predetermined

3   periods of time.

1   49.   (Original) The method according to claim 48, wherein said predetermined periods

2   of time are various days of the week.

1   50.   (Original) The method according to claim 48, wherein said predetermined periods

2   of time are various hours of the day.

1   51.   (Original) The method according to claim 48, wherein said predetermined periods ·

2   of time are various hours and days of the week.

1   52.   (Currently Amended) A method executed in a call manager within an IP telephone

2   network for providing call forwarding comprising the steps of:

3   receiving a destination identifier of a first telephone for a call;

8

Serial No: 09/475,144

4   sending a control signal to a port at <u>the</u> location of said first telephone <u>without</u>

5   <u>extending said call to said port</u>;

6   when said port responds <u>to said control signal</u> with information that is indicative of

7   no active <u>call forwarding</u> profile for said first telephone, undertaking to extend said call to

8   said port; and

9   when said port responds <u>to said control signal</u> with information detailing a <u>call</u>

10   <u>forwarding</u> profile for said telephone, routing said call in accordance with said information.